

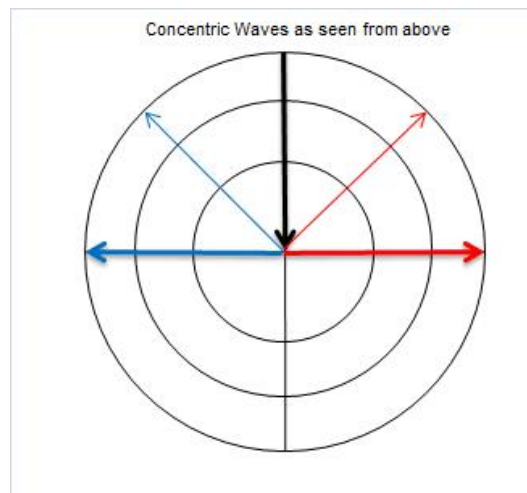
The unified electromagnetic field

By Adolfo Rios Pita Giurfa

Our concern with these matters occurred after a casual event: When we were asked to obtain a known inorganic salt compound in two varieties, having both the same particle size, but one should have a bulk density less than 1.0 g/cm³ and the other up to 1.25 g/cm³. Or more.

We did it, in practice, by trial and error. We then observed that the one having the lower bulk density though the same particle size as the other obviously owed this characteristic to the electrostatic charges of the particles composing it, while the one having a higher bulk density, also evidently, because it occupied a smaller volume, it had less electrostatic charge in its particles. Thus in the first case it had a bigger emission field and, in the second case, a lower emission field.

As the existence of polarity could not be neglected, as it is an obvious characteristic of matter and we deal with it every day and we observe it everywhere. So we asked ourselves what does relate them so as to figure out one and only description of it.



Let us imagine we drop a stone in a water pond from right above (orthogonally to the surface, as we would be seeing from 90°).

- It will produce on the surface of the pond a beautiful round wave, in the shape of a perfect circle, a round note "C". Clearly an emission field (EF). That wave will produce successive waves around the first wave and with longer radii. Those waves will form round crests in between (called warps by others) which in music are called intervals or gaps in a developing octave, and called planets in the solar system, where there are two bigger than the others: In our example case of decreasing frequency, as we are "playing back":

- Note-Freq.Hz) Wavelength (cm)

Between the notes: G#0/Ab0 25.96 1320.

Between the notes: C#0/Db0 17.32 1990.

- These gaps, crest or wraps are caused by the resistance, in our example, of water, and in general by the medium or by the interference of other waves from different emission sources.

- Now, let us imagine we draw on the surface of the circle/wave two diameters at right angles. It will be obvious that the ratio between two radii, if we consider each of them equal to unity will be ONE.
- As we pondered about the constants which appear everywhere in physics to describe the different phenomena we were interested in, and thinking what could establish a relation among them, we found in Planck's equation, that the amount of energy "E" equals frequency "v" multiplied by the constant which bears his name "h", this last one he found it to be equal to $0.66252 \times 10^{-23} \text{Js}$
- 0.66252, it seemed us a weird number by being an irrational number, which we suspected could involved something which could lead us to the desired relation. That number, of course, we supposed, was obtained from actual experimentation.
- In order to know whence it came, we thought to replace it by a harmonic number, rounding it to 0.6666, that is equal to the ratio $2/3$, which is the inverse of the perfect fifth $3/2$.
- Note.-The suspected difference or irrationality between 0.66252 and 0.66666 could be explained by the action of the local field where the Planck's experiment was done: On the earth. This gives a $1.98756/3$ ratio and not the expected $2/3$ ratio.
- The $2/3$ ratio (free from local influence) it is not a simple mathematical ratio, but a real one, then the expression of two forces combining, one which goes from the center to the periphery, in this case 2 and the other opposing that force, which decreases the resultant force, in this case 3, the first being the expression of the manifestation of the vector of the octave developing centrifugally, the other the vector opposing centripetally to it from the media, called by some "Gravity".
- The resultant force of this triangle of forces is what we see as a wave crest, a warp, and, of course we live on one of these where "mass" can be understood as the transient existence of what some call a discrete amount of energy, a quanta.

As we think from daily experience that everything is related to polarity, to ions, to electrons and protons, in the end to Electricity, then **we went to revisit the photoelectric phenomenon, which we thought it was also wrongly interpreted: It proved, beyond doubt, the electrical nature of the photon, the incident UV light on the electroscope plate contained in itself the energy of the afterwards emitted electron.**

So let us be clear: It is not that a "~~photon~~" goes in and and an "~~electron~~" goes out. Let us stop calling names: It is energy which goes in and energy which goes out, a higher frequency goes in and a lower frequency goes out, a shorter wave length goes in and a longer wave length goes out; of course part of the energy is lost as the higher frequency wave interacts with a lower frequency medium (the transformer core, in the case of an electric current transformer):

“positive” charge in it the leaves did not fall. This shows that what we consider “negative “ or “positive” is the resultant force of the ratio of the two forces, or the two radii in our example: When, for instance, its ratio is, say $3/2$ then obviously is more than ONE, so it is “positive”; being the “primum mobile” force greater than the one which opposes to its movement, when it is the contrary, say $2/3$, or 0.666, it is less than the unity thus we can call it “negative”, so in this case, the force opposing the first force, is greater than the one which starts the movement, the “primum mobile”. Thus we know, also, if the octave is developing toward higher or lower “itches”.
 • Now, if we were to observe closely where waves are resisted, at the crests, and we could watch it as in an instant, we could see transversally a circle where forces are acting as a triangle of forces inscribed in it.

• **As surfers on a round wave, living a fleeting eternal and transient instant, we would call that wave of energy “mass”, the earth, and the force which keep us on it, gravity.**

We could make a digression here and think that apparently all phenomena and reality happens in between 0 and 1, or in between the force=1, and the void=0, where the force tendency is ever to fill the void. Either we could say that reality is encompassed in between 0 and 9, with 8 digits in between the extremes: the octave.

We have seen that the EM field is such a force, which goes from the center to the periphery.

• Then, in the circle we made with our stone on the water pond, the outward force is the EM field, so we can put it as starting from the center, where the stone fell in the water, then if Gravity it is the force which opposes to it we can draw it from the periphery to the center.

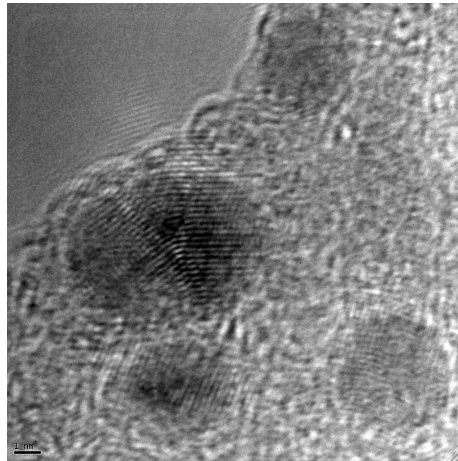
But, as the EM field irradiates in every direction from the center outwards, as the waves produced by our stone proves it, then we can choose to draw anyone of them; then let’s draw an arrow from the center to the periphery but in right angles to the one representing Gravity.

• Thus we now have a nice triangle of forces, a square triangle.

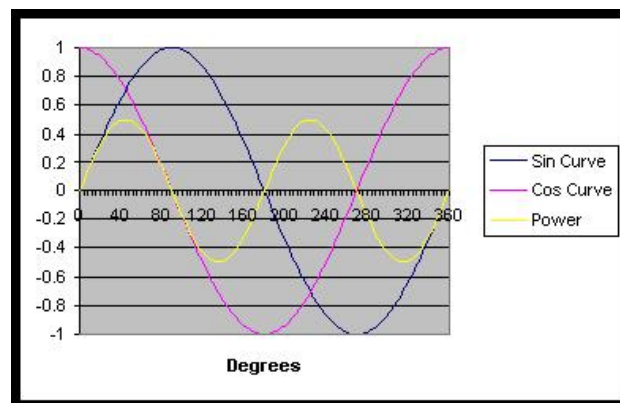
• The force of Gravity, the arrow ending in the center we know it is 9.81, a weird number too, because if we ideally have two equal cathetus (radii) and we make them equal to 1 each one, then our hypotenuse would be equal to $\sqrt{2}$. So if we realize that weird 9.81 number is affected by the local EM field, chances are that it can really be equal to 10, so we can have each one of the two catheti forming our triangle (radii) equal to 10 and our hypotenuse would be equal to $\sqrt{200}$.

• Then if we want to turn our troublesome cathetus, Gravity, equal to Zero, we should have to make the other cathetus equal to the hypotenuse, that’s equal to $\sqrt{200}=14.1421$.

Then that “primum mobile” that “stone” is the “first force” which has been opposed by a constant and contrary force, apparently from the “medium”.



Then, if we consider the two forces of a field, one to the right (+) and one to the left (-), we will find that one approaches (following the law of sine) the unity=1, the other, starting at 180 degrees, being equal to -1 approaches (following the law of cosine) zero.



So Gravity is the sum:

$$G = \sin y + \cos y$$

$$G = 1 + 0$$

Which means that the resultant force will be equal to 1, or almost one, as 0.981 . Now, **G**, the constant, the gravitational constant, in Newton's equation:

$$F = G (M_1 M_2) / r^2$$

Actually represents the sine added to the cosine of the angle equal to 90°

$$G = \sin y + \cos y = 1 - 0 = 1$$

The actual value: 0.981 reveals that the local emission field, though small subtracts it to its measured and known value.

Where M1 and M2 (both mass quantities) equals the **diameter** of the circles, **on a plane**, particles or planets alike, in the present case = 2, and Gravity= 1, then it follows that the EM in the case of the Earth would be the difference between 0.981- 1.0 = -0.019, thus its force would be 1.94 % that of gravity and opposed to it.

We find, also, that when forces are arranged each at an angle above the horizontal being **equal to 45 degrees**, the resultant force will be composed of two vertical vectors: **One from the periphery to the center (Gravity) and the other, from the center to the periphery (EM field)**:

MAGNETIC FIELD

$$G_1 = \sin \gamma = + 0.70711$$

$$M = \cos \gamma = - 0.7011$$

Then the resultant central vector equals a **PERMANENT MAGNET, where its attraction is Gravity (to the center) and its repulsion is the EM field (to the periphery)**

When both vectors are at an angle lesser than 45°:

EMISSION FIELD

$$\sin \gamma < + 0.70711$$

$$\cos \gamma < - 0.7011$$

In order to exemplify how these phenomena proceed, let us consider when on a certain spot on the Earth, it happens a sudden change in the acceleration of gravity, usually a few hundredths....we have an earthquake! , and “earthquake lights” happen: Because **there is a sudden variation in the ratio on which those two vectors of opposite charges combine or neutralize to be gravity**, as changing the leads on a motor to change its direction of turn. In such cases an arc can happen: the earthquake lights we see.

Thus, we have demonstrated that **only relatively neutral (“buffered”) matter exhibits more conspicuously that almost neutral force called Gravity, and it is relatively more subjected to it, while more ionized (charged) matter it is relatively more subjected to the local EM field.**

Conclusion.-

We can generalize:

1. When the two polar forces oppose, at $\sin 0^\circ = 0$, and $\cos 180^\circ = -1$,
the resultant field is 100% an EMISSION FIELD.
2. When the two polar forces oppose at an angle of 45°, the resultant field is a MAGNETIC FIELD, composed of two equal and opposing vectors: One, the attraction field, Gravity, going from the periphery to the center, and being equal to:

$$G_1 = \sin \gamma = + 0.70711$$

And, the second one, the repulsion field, Emission Field (EM), going from the center to the periphery:

$$M = \cos \gamma = -0.7011$$

3. When the two polar forces oppose at any other angle different to 0° we will always find a compound field of three forces: One positive, One negative and One neutral.
4. Thus the constants which appear as a factor in all laws of physics, **are not constant but variables, more precisely ONE variable, which corresponds to the addition of the Sin and the Cosine values of the angle between the two polar forces of the ONLY ONE EXISTENT FIELD.**
5. Thus, **EVERY AND ANY RATIO IS A RATIO BETWEEN TWO CHARGES**

$$\Phi/\Phi_i = \sin \gamma + \cos \gamma$$

6. Then the Max Planck equation can be generalized also:

$$E = h\nu$$

Where:

$$h = \sin \gamma + \cos \gamma$$

and being

$$\nu = C/\lambda$$

Where:

$$\lambda = D = 2R \text{ (two radii)}$$

$$\text{Then: } E = (\sin \gamma + \cos \gamma)(C/D)$$

So **D** is the link with three dimensions if anyone feels more comfortable with it. (*)

$$\text{Or: } E = (\sin \gamma + \cos \gamma)(C/\lambda)$$

Where **C** is the velocity of propagation (its maximum being the velocity of light).

$$\text{And } E = (\sin \gamma + \cos \gamma) \nu$$

(*) *In order to understand that the universe is Energy, we must abandon the wrong conception of dividing reality in "different states of matter", in special waves vs. "mass": The obvious nature of the electron synthesizes both general qualities.*

If there would be an observer having a "size" (dimension) of thousand of light years, watching the earth, such an observer could consider the earth as being a very small particle, perhaps an electron, and behaving as such, with its characteristic wave movement.

"C" is the velocity of light, rather and more exactly, the velocity of propagation of the energy wave, which is resisted and modified by the "medium", the other fields it encounters. Some have thought that "medium" is what they call a mysterious "Aether", however that "Aether" it is the

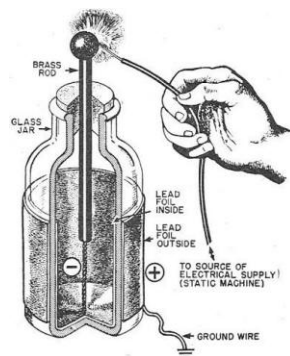
external force opposing the development of a wave, as in the known phenomenon of diffraction of light passing through water in a glass:



The “médium” here is water, of course denser than air, and we see the difference between the two “médiums” and the two different resistances to the propagation of light (energy). That “field” in this case is a field we call “water”.

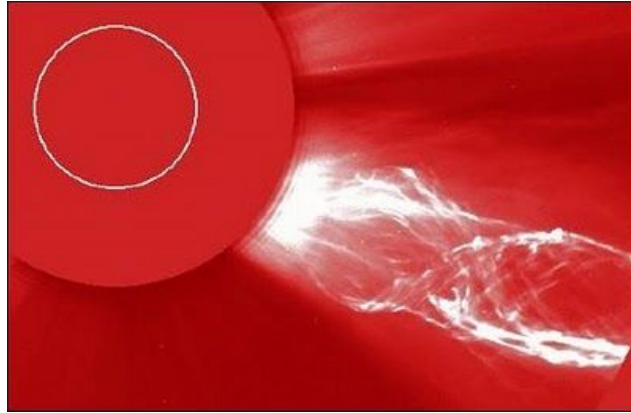
So, “liquids”, “solids”, “mass” are also fields which affect the propagation of energy waves. In chemistry solids are usually and correctly called “solid solutions”, where it is recognized they have pH and thus charge.

Let us say we have a force, a charge before manifestation, before propagation, and we give it the value of ONE (1), say a charged rubbed rod and we then approach it to an empty which we could assign the value of no charge = 0 (a Leyden bottle condenser), “1” will go to fill the void “0”, it will discharge in it:



Now we have a “discharge”, we have a current!, going from “1” to fill “0”.

It is “static electricity” being discharged we all could say, but let’s stop our custom of calling energy by different names and watch that it does not go straight ahead as it is opposed by the medium “out there”, in this case the atmosphere, the air or in the case of a Solar CME:

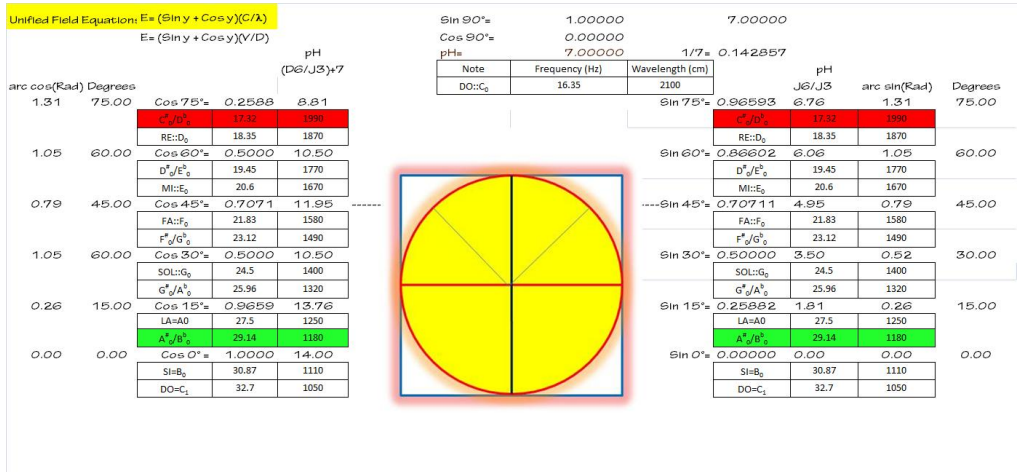


That outer EM field is the interplanetary EM environment , that resistance to it is the same as the one called in electricity “electric resistance”. That “opposing medium”, that external field, that “aether”, it is composed of planets, neutrons, neutrinos, whatever names we can give them (just to confuse ourselves) which are fields of energy themselves.

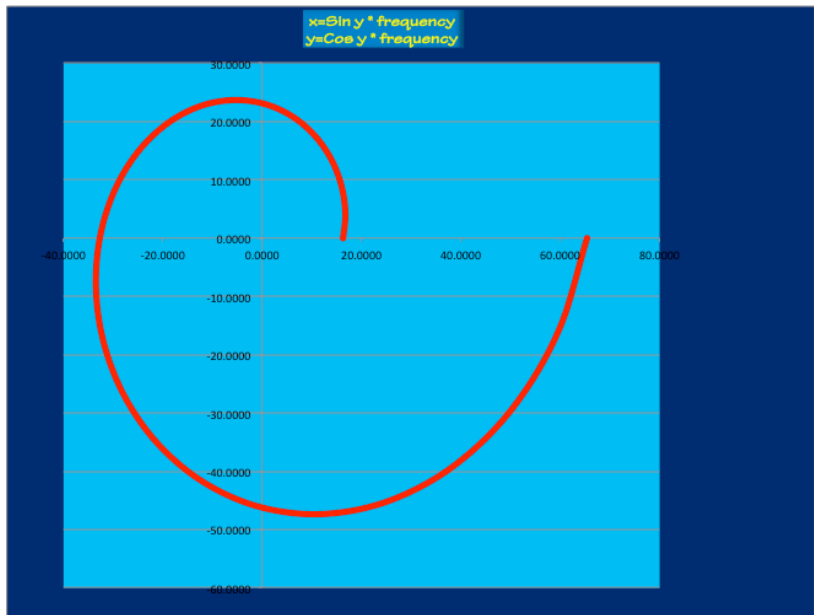
Then we can see physical “reality” occurs in the interval between 1 to 0 :

Sin	Cos
0.000	1.000
0.259	0.966
0.500	0.866
0.707	0.707
0.866	0.500
0.966	0.259
1.000	0.000
0.966	-0.259
0.866	-0.500
0.707	-0.707
0.500	-0.866
0.259	-0.966
0.000	-1.000
-0.259	-0.966
-0.500	-0.866
-0.707	-0.707
-0.866	-0.500
-0.966	-0.259
-1.000	0.000
-0.966	0.259
-0.866	0.500
-0.707	0.707
-0.500	0.866
-0.259	0.966
0.000	1.000

The following graph summarizes what we have told before:



"Gravity"/10	EM Field	Note	Frequency	X	Y
Sin	cos				
0.0000	1.0000	DO C ₀	16.3500	16.3500	0.0000
0.2588	0.9659	C ₀ /D ₀	17.3200	16.7298	4.4827
0.5000	0.8660	RE D ₀	18.3500	15.8916	9.1750
0.7071	0.7071	D ₀ /E ₀	19.4500	13.7532	13.7532
0.8660	0.5000	MI E ₀	20.6000	10.3000	17.8401
0.9659	0.2588	FA F ₀	21.8300	5.6500	21.0862
1.0000	0.0000	F ₀ /G ₀	23.1200	0.0000	23.1200
0.9659	-0.2588	SOL G ₀	24.5000	-6.3411	23.6652
0.8660	-0.5000	G ₀ /A ₀	25.9600	-12.9800	22.4820
0.7071	-0.7071	LA A ₀	27.5000	-19.4454	19.4454
0.5000	-0.8660	A ₀ /B ₀	29.1400	-25.2360	14.5700
0.2588	-0.9659	SI B ₀	30.8700	-29.8181	7.9897
0.0000	-1.0000	DO C ₁	32.7000	-32.7000	0.0000
-0.2588	-0.9659	C ₀ /D ₀	34.6500	-33.4693	-8.9681
-0.5000	-0.8660	RE D ₀	36.7100	-31.7918	-18.3550
-0.7071	-0.7071	D ₀ /E ₀	38.8900	-27.4994	-27.4994
-0.8660	-0.5000	MI E ₀	41.2000	-20.6000	-35.6802
-0.9659	-0.2588	FA F ₀	43.6500	-11.2975	-42.1627
-1.0000	0.0000	F ₀ /G ₀	46.2500	0.0000	-46.2500
-0.9659	0.2588	SOL G ₀	49.0000	12.6821	-47.3304
-0.8660	0.5000	G ₀ /A ₀	51.9100	25.9550	-44.9554
-0.7071	0.7071	LA A ₀	55.0000	38.8909	-38.8909
-0.5000	0.8660	A ₀ /B ₀	58.2700	50.4633	-29.1350
-0.2588	0.9659	SI B ₀	61.7400	59.6363	-15.9795
0.0000	1.0000	DO C ₁	65.4100	65.4100	0.0000

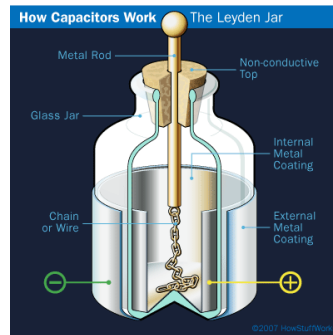


In it we have included Sin and Cosine values, pH going from 0 to 7 and from 7 to 14 and octave frequencies, following the same order, thus encompassing all reality.

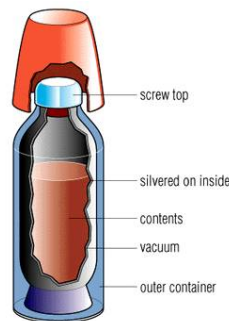
Spreadsheet at: http://www.giurfa.com/unified_field.xlsx

As everything follows the same laws, let us give an example of it:

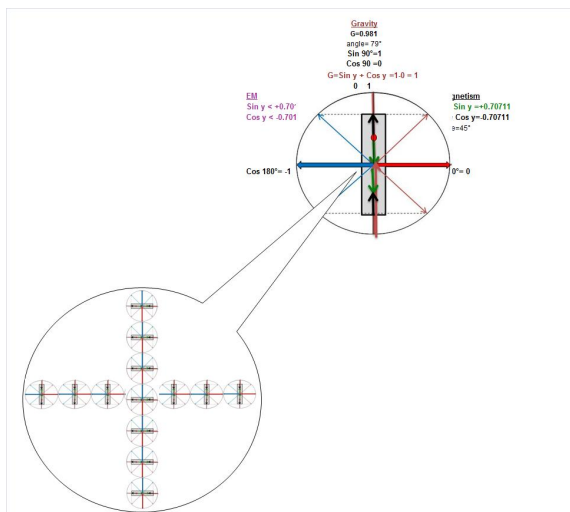
1. An electric condenser: A Leyden bottle



2. A light ("infrared") condenser: A thermic flask



Last but not least, charges are in its turn also waves:



(*) NOTE:

Though the above refer to scalar units, which reflect the actual functioning of nature, in order to make empirical calculations possible we must transform them into quantity units. Thus we must consider an equivalent of “mass”: What we will call “**density of vibrations**”, equal to the number of cycles contained in a unit of space (volume) during a certain time.

$$D_v = (v)^3$$

And it follows that “Mass” is :

$$m = 1/(v)^3$$

Summarizing:

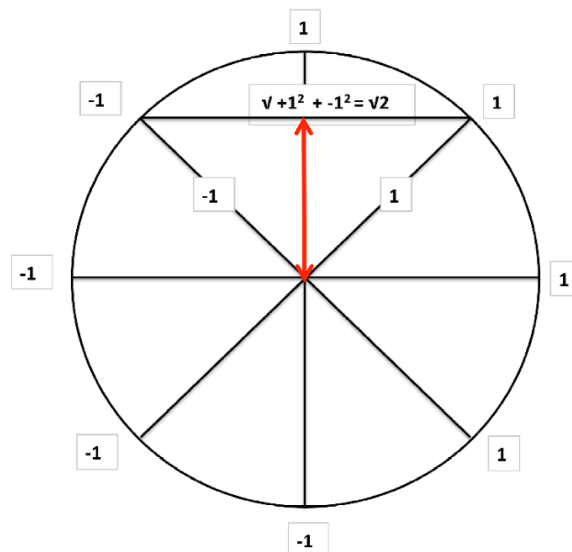
Everything in the universe moves and manifests according to the laws of the opposites, which at the start are = 1 and 0, and then evolve attracting and repelling among them, following the sine and the cosine; each movement developing on frequencies as the law of the octave, where, in the intervals (gaps) there is an exchange of energy/force, be it as emission or absorption, input and output, feeding and excreting. At these points on inflection it manifests the law of three: active, pasive and resultant.

Morals: Let us forget, erase, the name “Gravity” from our psyche, IT DOES NOT EXIST!!

And “Time”, also, does not exist, “Tempo” (frequency) does instead.

Note.-Please take into consideration that the two dimensional circle above it is but a transversal cut of a train of waves, moving along an axis, the center of the circle, a current of four waves: East-West and North-South, and all its possible analogies, biological, non biological, etc. It is really “A Golden Compass”.

Though all the above can be understood, more or less, within the frame of the current paradigm, something remains irrational, and this is the existence of ZERO itself, so we can arrange our two dimensional graph this way:



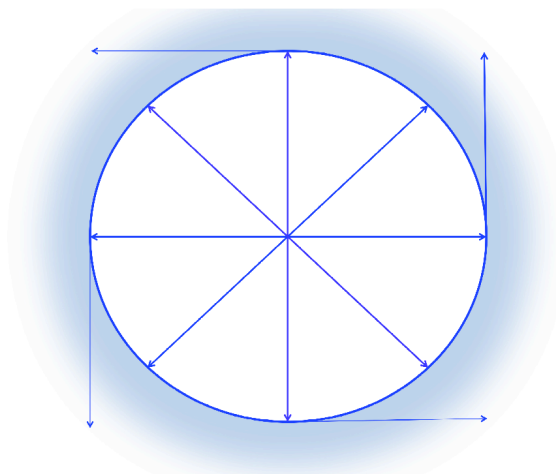
Where it is easier to observe all phenomena; then:

- Such a concept of “nothingness”, as it contradicts reason, does not exist, then the ZERO integer does not exist.
- Polarity happens through the relative opposition of forces.
- As we see polarity is relative to the sense of spin, to the relative position of forces: To the “right” or to “left”, “up” or “down”.
- There is a constant and permanent relation: That of “electricity” and “magnetism”, 90° apart.
- In ANY triangle of forces one of the angles must necessarily and always be equal to 90°
- It follows that only the “legs” can change its “strength”(length), and the ratio between the “legs” causes spin and apparent “polarity”.

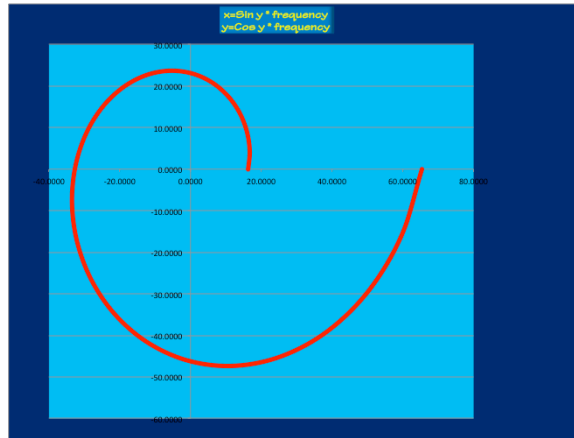
HOW THE UNIVERSE (THE COSMOS) IS AND HOW IT WORKS:

We already have enough data or input to clarify for ourselves how the universe is and how it works.

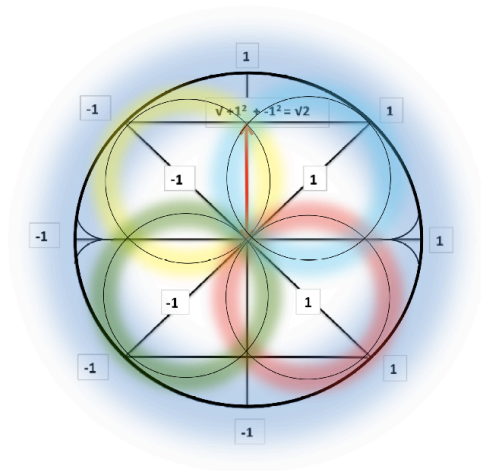
- The whole universe is a POINT and it is contained in every point.
- We have also found that these two polar forces, as “nothingness” does not exist by definition, then, these can be defined as the two extremes of a unit: + 1 and -1
- If we take a closer look at the point, if we zoom in, we will find, repeated, the same structure:



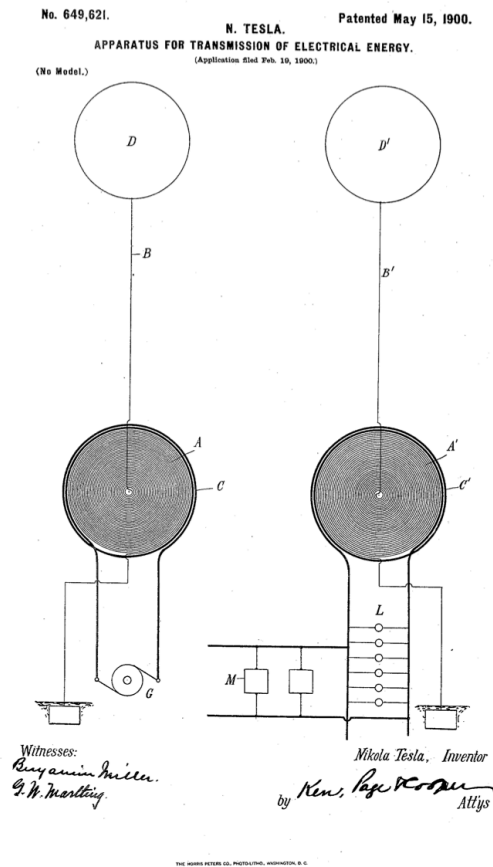
A mono-dimensional spiral:



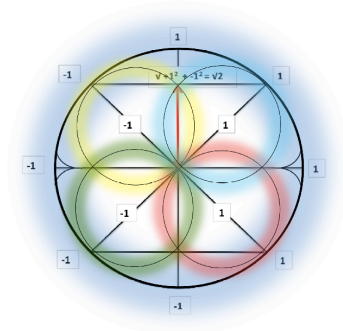
- We know, already, that this “point-spiral” has been originated by the opposition of two forces: + 1 and -1



- This FACT has been experimentally proved already:



The graph, above, shows the arrangement for the construction of an apparatus for the “Art of transmitting electrical energy through the natural mediums” as shown in the US Patent Nr.142352, given to Nikola Tesla in April 17, 1906, and which depicts 02 two dimensional (flat) spirals, each one carrying an opposite force, which evidently produce a both sided “emission field”, as two semi-spheres:



As seen in the following video, where Professor Eric Dollard shows it:

<http://youtu.be/DFa-lymyWHM>

- This phenomenon can be also proved mechanically by any one just by kicking on the central point of a “gong”:



- Then, it follows that every point of the universe contains the totality in itself.
- When, as in a “gong” or in the Tesla spiral, or as in our first example, while dropping a stone in water this “point” is disturbed, it starts, “evolves” an “emission field”.
- It also follows that when such field increases its wave frequency it can ultimately become a “point”, again, relative to the observer.
- The evolution and involution of waves happens following the laws shown above and are scalar in nature, just becoming quantifiable when compared subjectively by the observer.
- These basic and universal laws are those, as taught by tradition, of the three forces, composed in a triangle and, when this triangle moves, those of the musical scale.
- “Particles” and waves: A transversal wave or train of waves happens when there is a phase angle, being positive or negative. A linear wave happens when there is no phase angle. A “negative” train wave it is perceived and named as an “electron”, a “positive” train wave it is perceived and named as a “proton”. A linear wave it is perceived and named as a “neutron”.



THE UNIFIED FIELD EXPLAINED



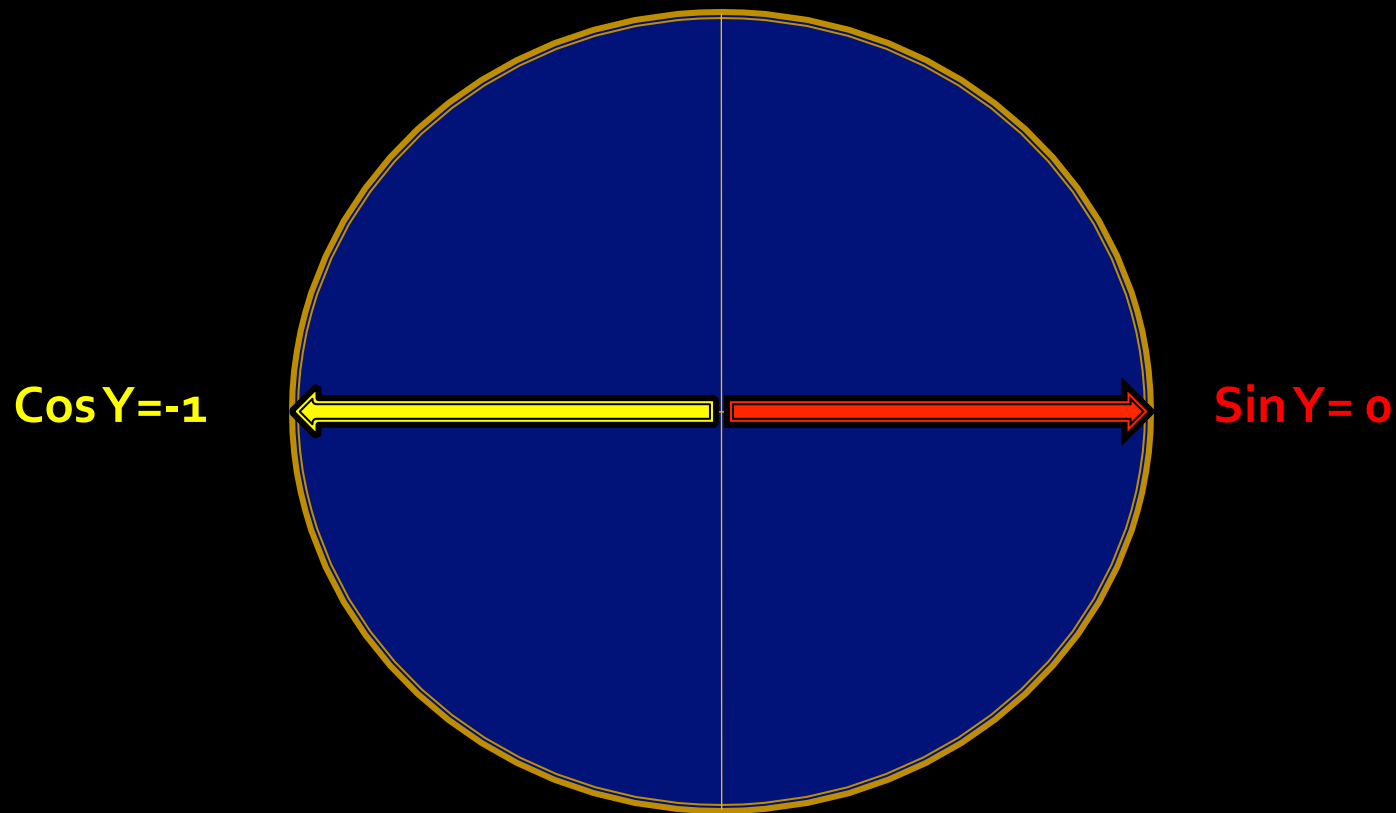
- All physical constants are RATIOS
- Every RATIO is a RATIO between two charges
- These two charges move following the law of Sin and Cosine
- The sum of both functions represent the total field.

LET US BEGIN TAKING A SNAP SHOT AT A WAVE MOVING AHEAD:

WE HAVE FOUND THE TWO OPPOSED FORCES
AT REST

ONE TO THE LEFT : **THE COSINE "Y" at $180^\circ = -1$**

ONE TO THE RIGHT: **THE SIN "Y" at $0^\circ = 0$**

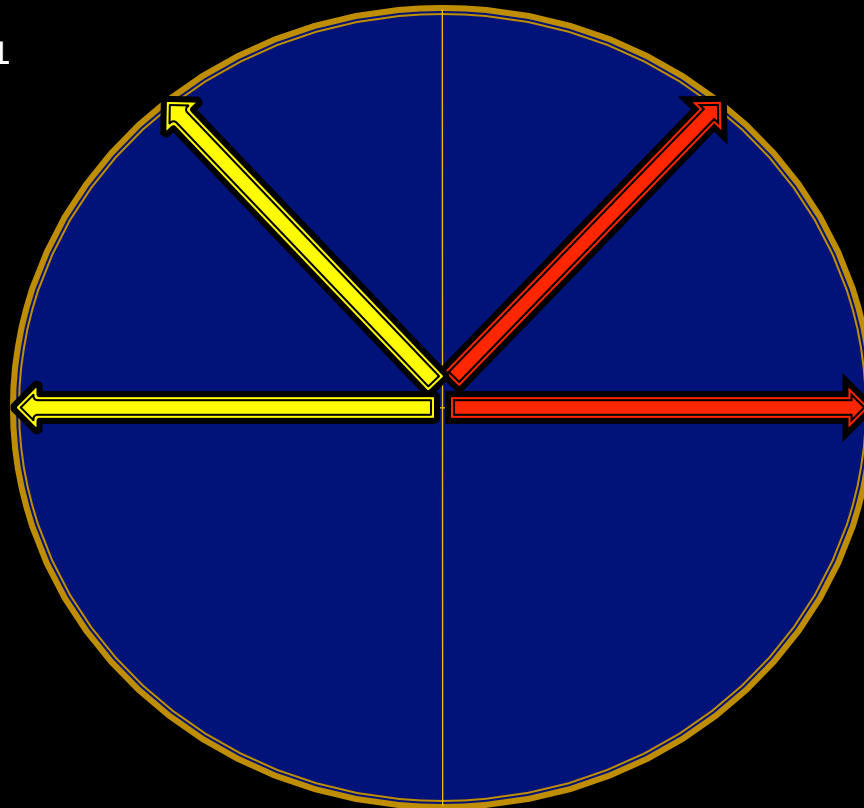


In Order to make it less abstract we put two opposite forces:
Oxygen to the left and Hydrogen to the right
 Then let's observe them move 45°

Electricity
 $\sin Y = + 0.70711$
 $\cos Y = - 0.70711$

OH-H

$\cos Y = -1$
O -

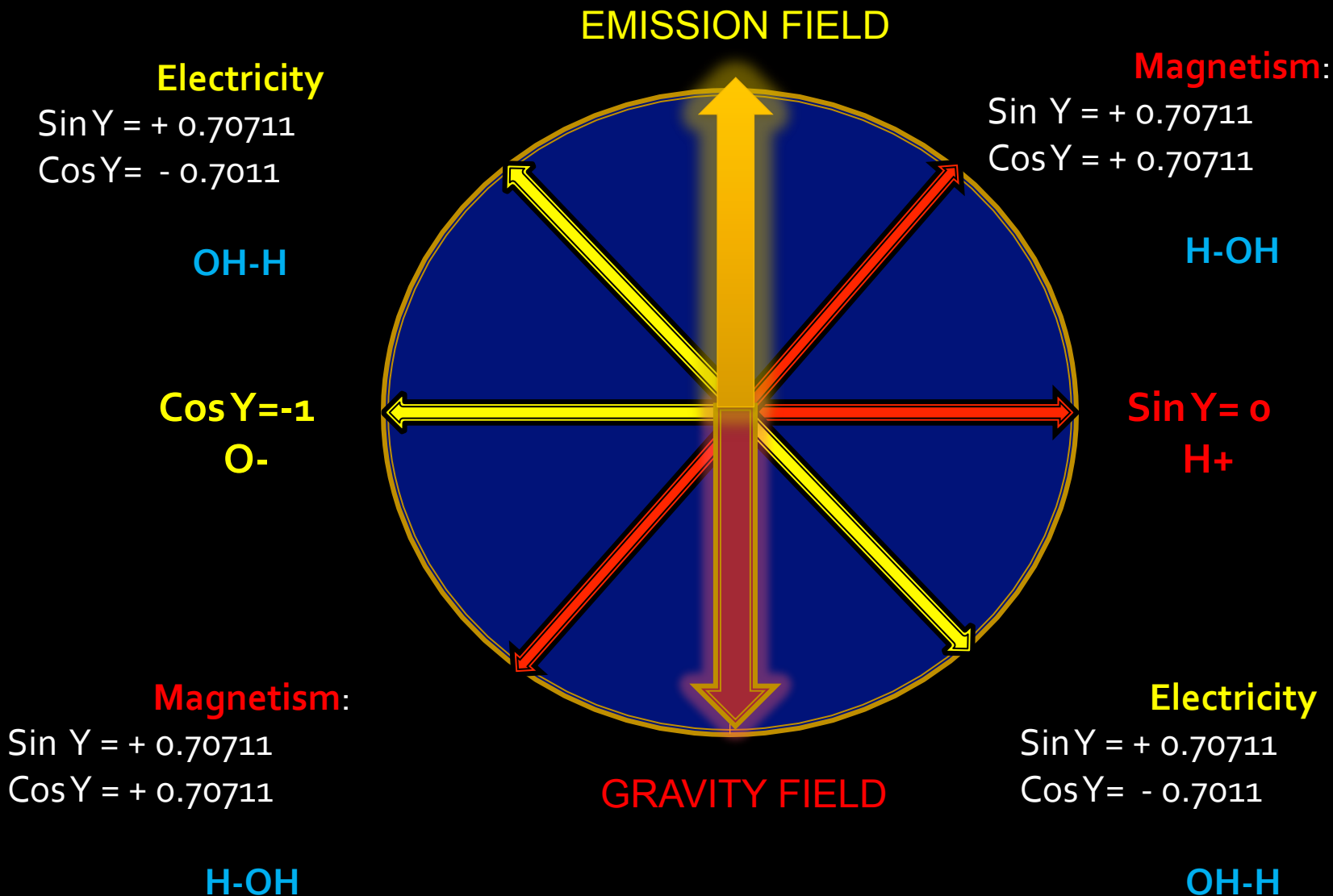


Magnetism:
 $\sin Y = + 0.70711$
 $\cos Y = + 0.70711$

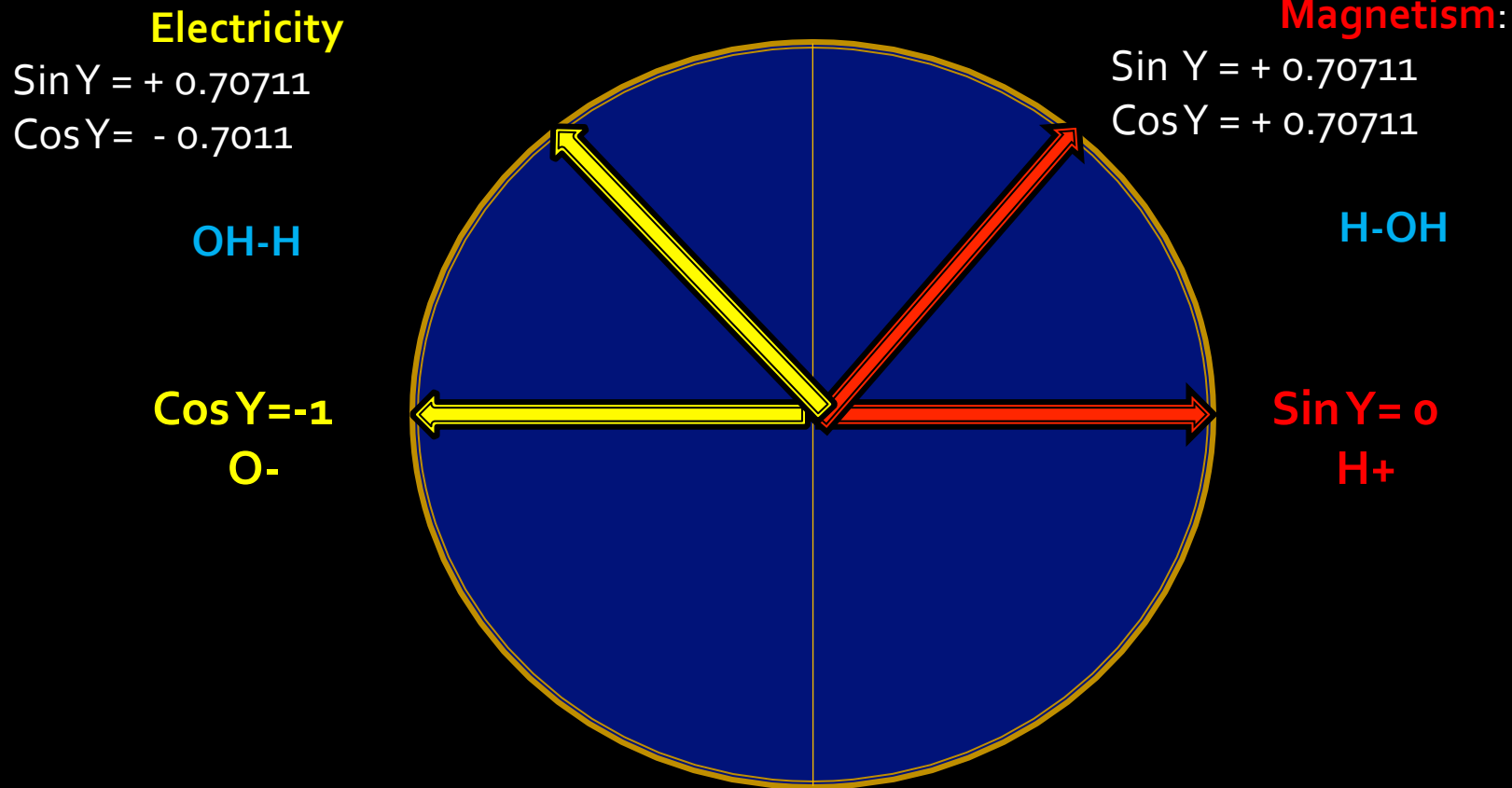
H-OH

$\sin Y = 0$
H +

Now we have: **ELECTRICITY** and **MAGNETISM**
 at an angle of 90° between them.
 And ionized Water as Hydrogen Hydroxide



Now we have: **ELECTRICITY** and **MAGNETISM**
 at an angle of 90° between them.
 And ionized Water as Hydrogen Hydroxide



GRAVITY:

$$\sin 90^\circ = 1$$

$$\cos 90^\circ = 0$$

$$G = \sin Y + \cos Y = 1 + 0 = 1$$

And H_2O WATER! (MATTER)

Electricity

$$\sin Y = + 0.70711$$

$$\cos Y = - 0.70711$$

OH-H

$$\cos Y = -1$$

O-

Magnetism:

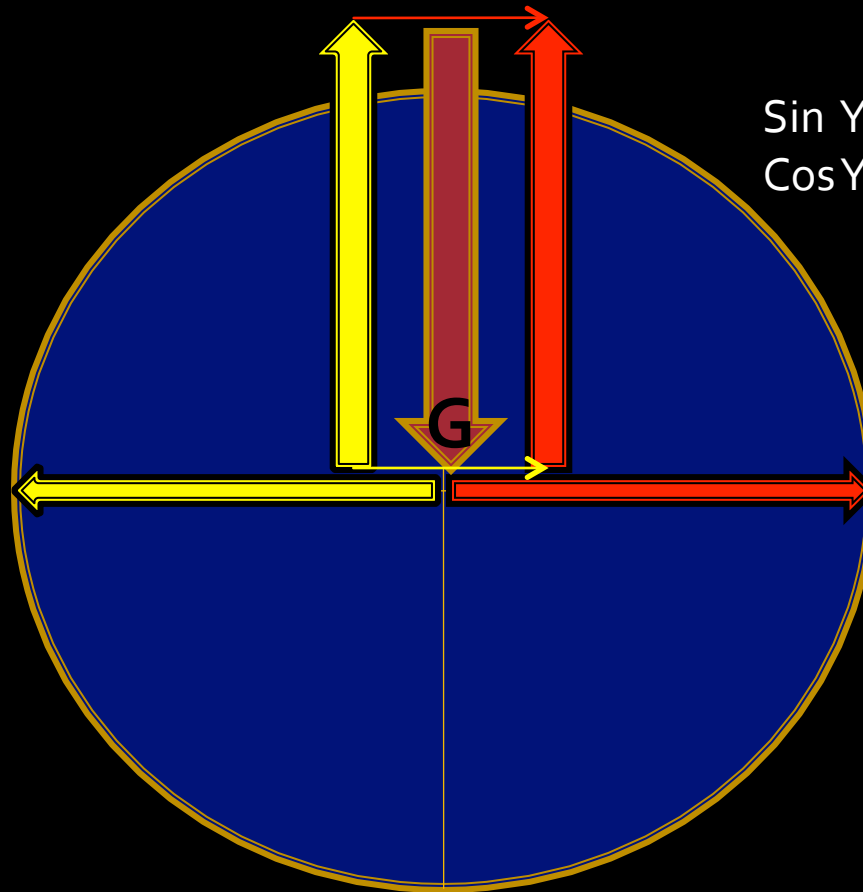
$$\sin Y = + 0.70711$$

$$\cos Y = + 0.70711$$

H-OH

$$\sin Y = 0$$

H+



- When the two polar forces oppose, at $\sin 0^\circ=0$, and $\cos 180^\circ= -1$,
the resultant field is 100% an EMISSION FIELD.

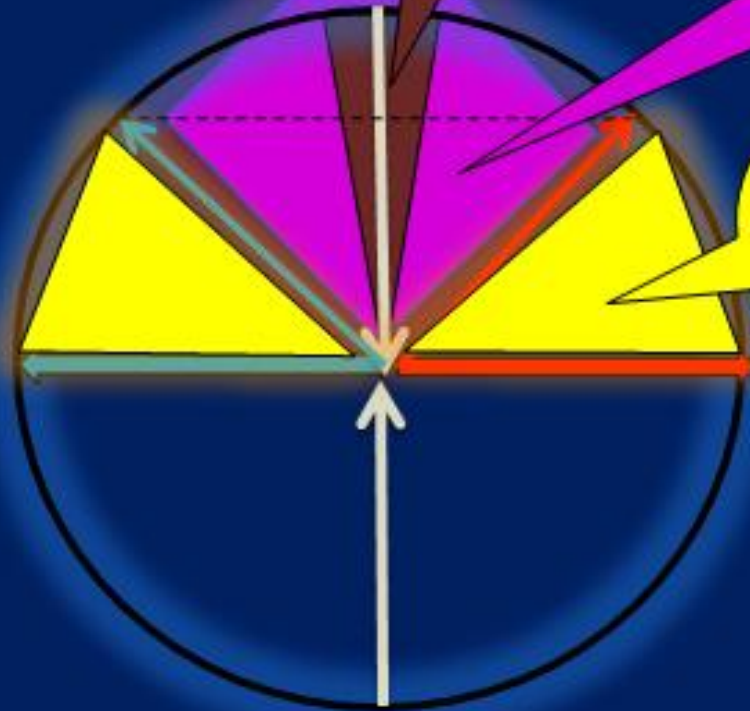
- When the two polar forces oppose at an angle of 90° ,
the resultant field is a MAGNETIC FIELD/ ELECTRICAL
FIELD

- When the two polar forces approach $\sin 90^\circ=1$ and $\cos 90^\circ=0$ both vectors add, changing direction 180° ,
thus the resultant force will oppose the emission field
and it is called Gravity

Gravity
Zone
vectors
add and
turn 180°

Electricity
Magnetism
Charges at
 90°

Emission
Zone
Charges
at $> 90^\circ$



So Gravity is the sum:

$$G = \sin y + \cos y$$

$$G = 1 + 0$$

Which means that the resultant force will be equal to 1, or almost one, as 0.981. Now, G, the constant, the gravitational constant, in Newton's equation:

$$F = G (M_1 M_2) / r^2$$

Actually represents the sine added to the cosine of the angle equal to 90°

$$G = \sin y + \cos y = 1 - 0 = 1$$

Note: We have divided $G/10=0.981$

So the Max Planck's equation:

$$E = h\nu$$

$$h = \sin y + \cos y$$

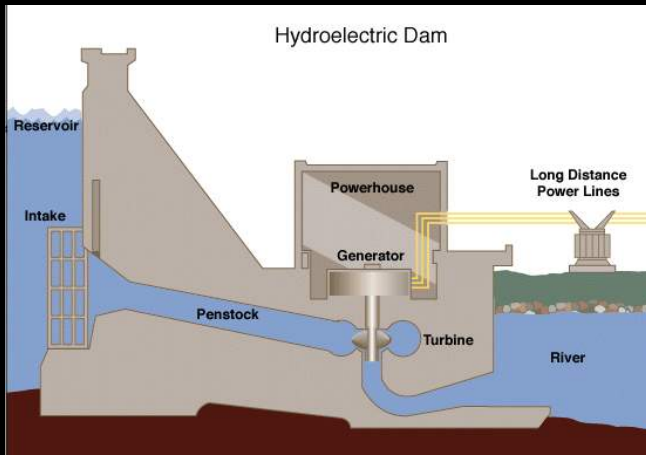
$$\nu = C/\lambda$$

Becomes the equation of the Unified
Field:

$$E = (\sin y + \cos y) \times \nu$$

or

$$E = (\sin y + \cos y)(C/\lambda)$$



Magnetism

Electricity

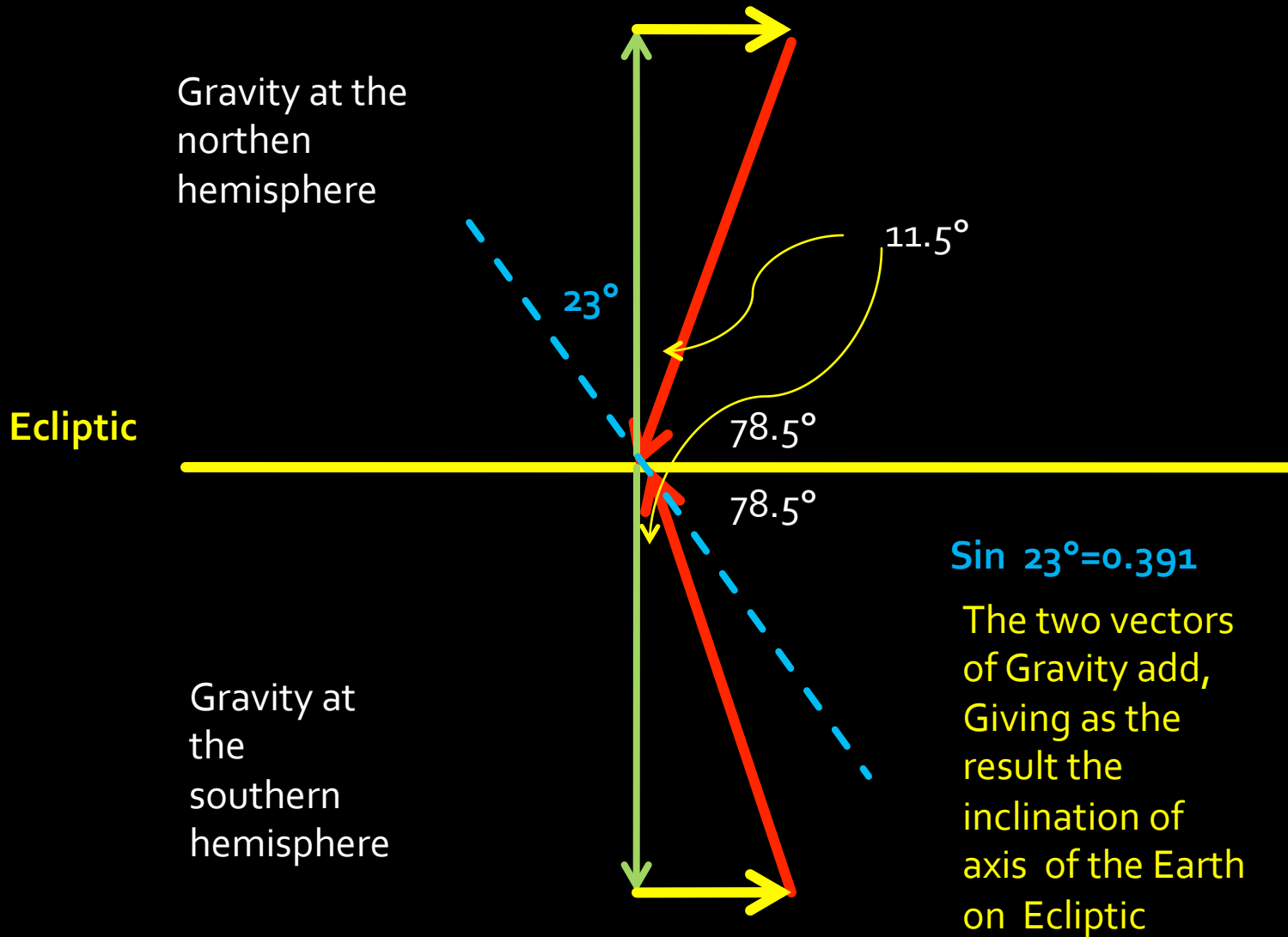
Gravity

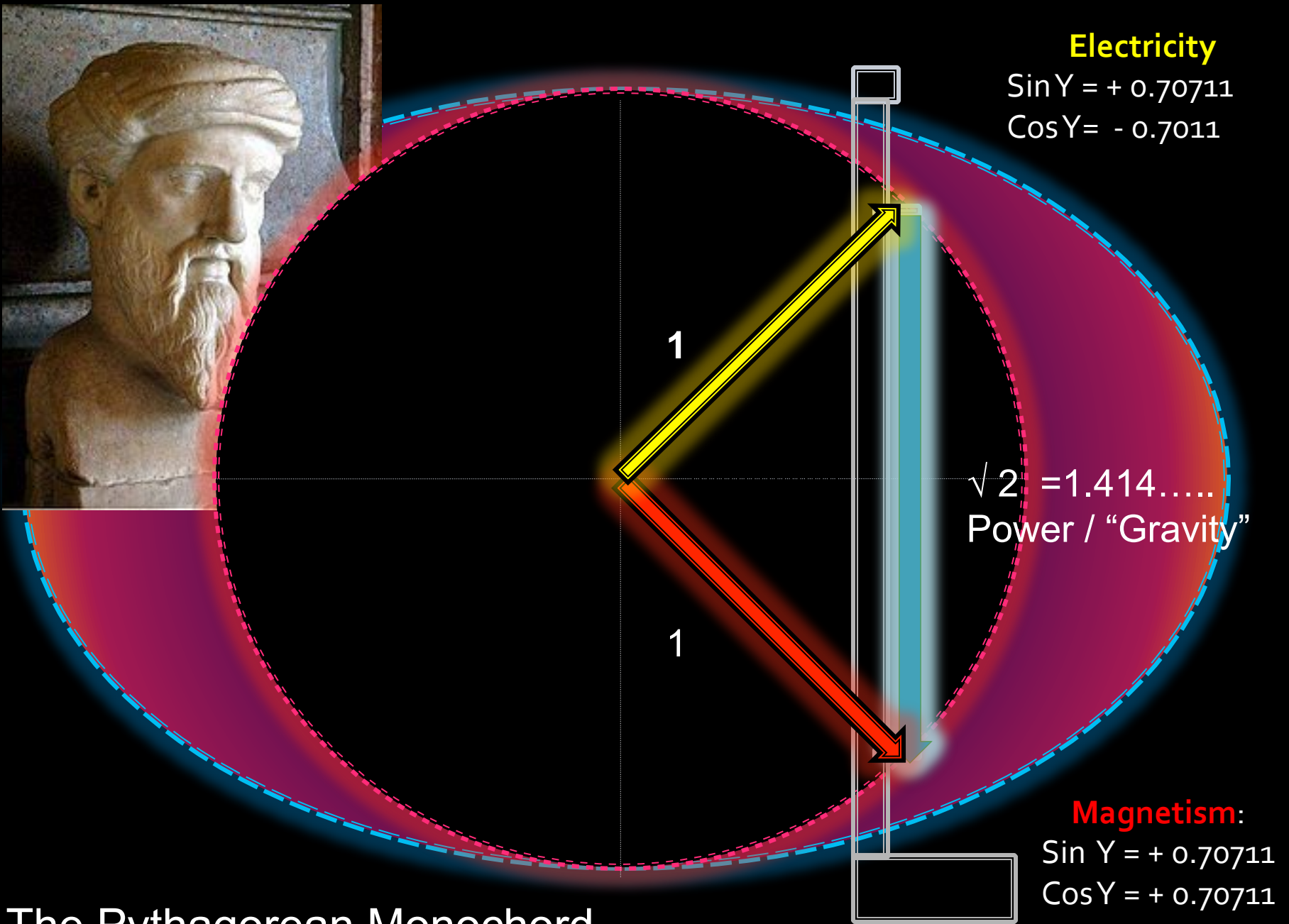
79°

Earth Gravity= 9.81 Nm

$10 - 9.81 = 0.19$

$\sin 0.19 = 78.5^\circ$





Electricity

$$\sin Y = + 0.70711$$

$$\cos Y = - 0.70711$$

$\sqrt{2} = 1.414.....$
Power / "Gravity"

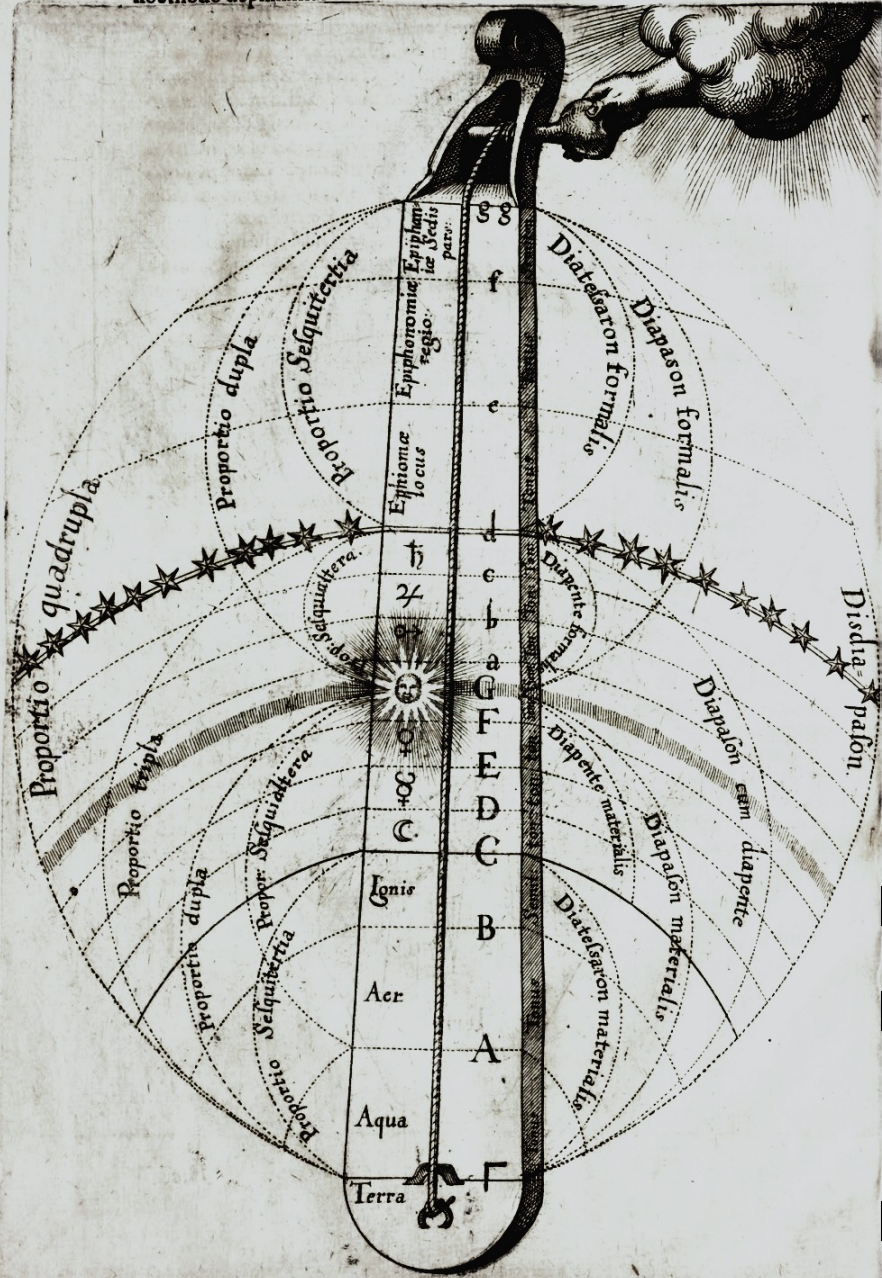
Magnetism:

$$\sin Y = + 0.70711$$

$$\cos Y = + 0.70711$$

The Pythagorean Monochord

Hic autem monochordum mundanum cum suis proportionibus, consonantiis & intervallis exactis composuimus, cuius motorem extra mundum esse hoc modo depinximus.



Pythagoras

Monochord

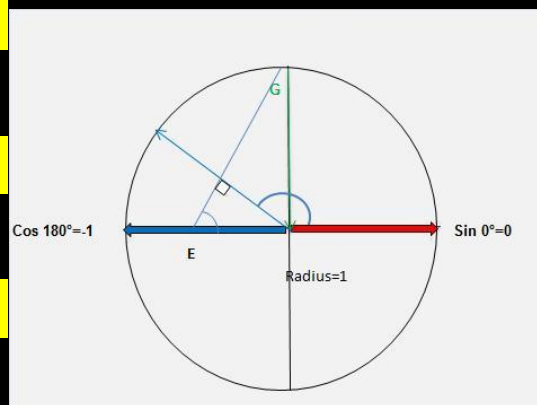
 Ignis :Fire, Plasma

 Aer : Air, Gas

 Aqua: Water, Liquid

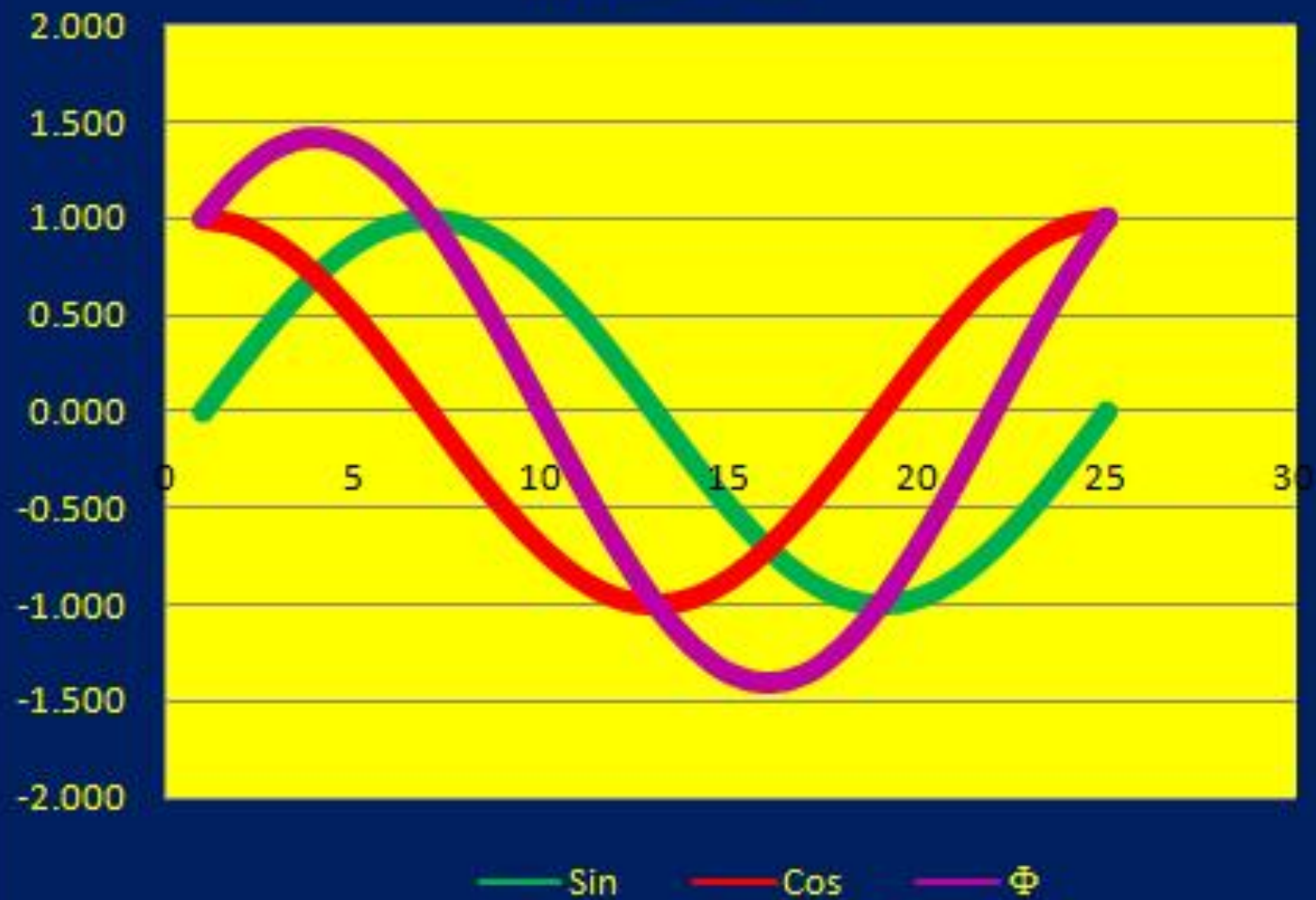
 Terra: Earth, Solid

<u>Mercury</u>	AC Phase angle Deg.:	22.33	0.21	Cos y (grades)	Cos y
	$\Phi=$	Gravity (sin y) 0.38	Field (-cos y) -0.98	-0.5987	EM field -5.99 Nm
<u>Venus</u>	eccentricity=		0.01		
	AC Phase angle Deg.:	64.16		Cos y (grades)	Cos y
	$\Phi=$	Gravity (sin y) 0.90	Field (-cos y) -1.00	-0.1000	EM field -1.00 Nm
<u>Earth</u>	eccentricity=		0.02		
	AC Phase angle Deg.:	78.81		Cos y (grades)	Cos y
	$\Phi=$	Gravity (sin y) 0.98	Field (-cos y) -1.00	-0.0189	EM field -0.19 Nm
<u>Moon (a)</u>	eccentricity=		0.03		
	AC Phase angle Deg.:	38.46		Cos y (grades)	Cos y
	$\Phi=$	Gravity (sin y) 0.62	Field (-cos y) -1.00	-0.3777	EM field -3.78 Nm
<u>Moon (b)</u>	eccentricity=		0.08		
	AC Phase angle Deg.:	22.33		Cos y (grades)	Cos y
	$\Phi=$	Gravity (sin y) 0.38	Field (-cos y) -1.00	-0.6170	EM field -6.17 Nm
<u>Mars</u>	eccentricity=		0.09		
	AC Phase angle Deg.:	22.33		Cos y (grades)	Cos y
	$\Phi=$	Gravity (sin y) 0.38	Field (-cos y) -1.00	-0.6156	EM field -6.16 Nm
<u>Jupiter</u>	eccentricity=		0.05		
	AC Phase angle Deg.:	-39.79		Cos y (grades)	Cos y
	$\Phi=$	Gravity (sin y) 2.64	Field (-cos y) -1.00	1.6412	EM field 16.41 Nm
<u>Saturn</u>	eccentricity=		0.06		
	AC Phase angle Deg.:	68.43		Cos y (grades)	Cos y
	$\Phi=$	Gravity (sin y) 0.93	Field (-cos y) -1.00	-0.0684	EM field -0.68 Nm
<u>Uranus</u>	eccentricity=		0.05		
	AC Phase angle Deg.:	62.87		Cos y (grades)	Cos y
	$\Phi=$	Gravity (sin y) 0.89	Field (-cos y) -1.00	-0.1089	EM field -1.09 Nm
<u>Neptune</u>	eccentricity=		0.01		
	AC Phase angle Deg.:	-6.89		Cos y (grades)	Cos y
	$\Phi=$	Gravity (sin y) 1.12	Field (-cos y) -1.00	0.1200	EM field 1.20 Nm



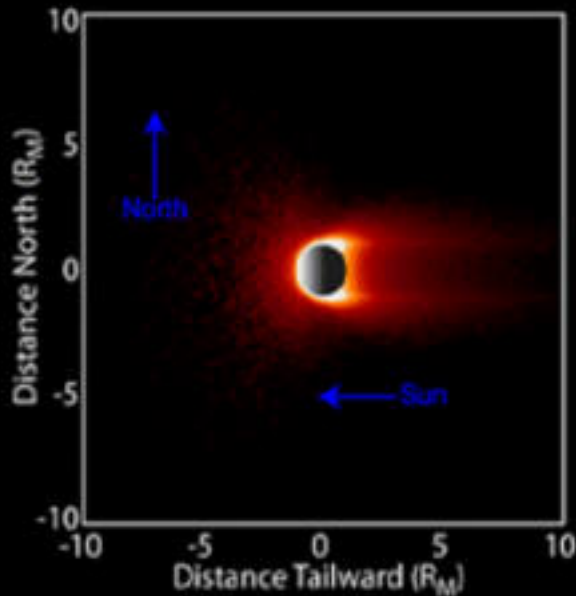
The eccentricity of planets' orbits it is related to the intensity of the emission field = $\text{Cos } y$

**Gravity
+ EM Field = Φ**

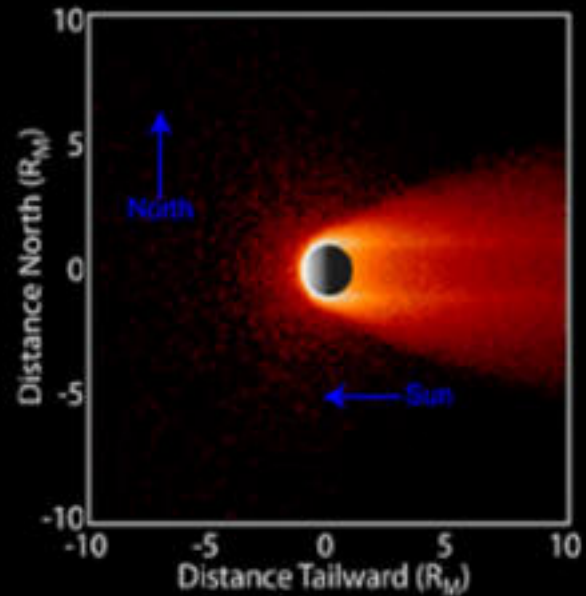


Mercury's Sodium Tail

Third Flyby



Second Flyby



A proof of Mercury's emission field

It is obvious that at $\sin y = 90^\circ$ the Emission Field is at its Maximum and the Gravity Field, being equal to $\cos y = 0$ is at its Minimum, so the Emission Field is at its Minimum at $\sin y = 270^\circ = -1$ and the Gravity Field is at its Maximum at $\cos y = 270^\circ = 0$

Thus:

- The lesser the emission field the greater the gravity (mass) field:

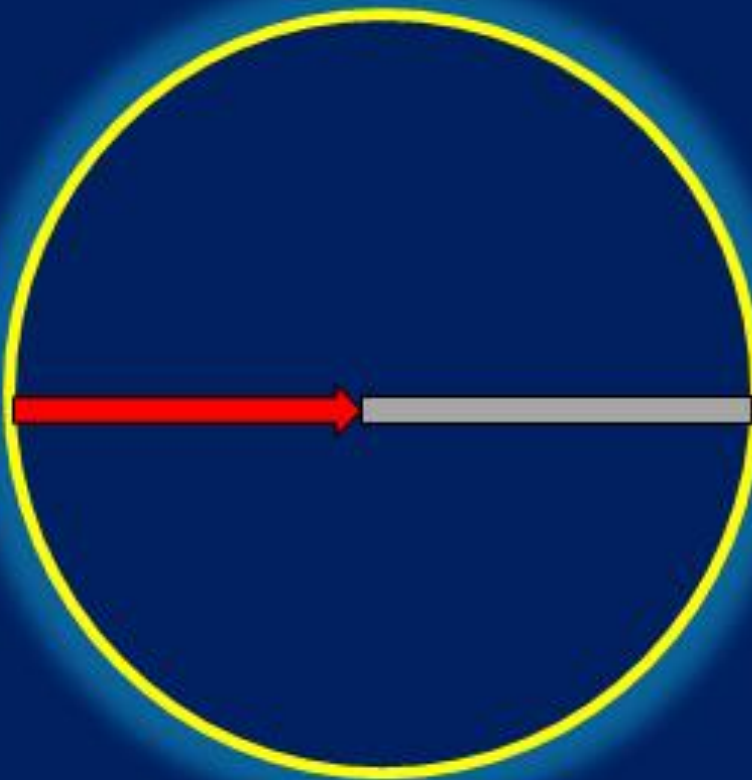
$$\bullet E = (\sin y + \cos y)(C/\lambda)$$

We have adopted the notation
Where the Maximum EM Field
"Repulsion" be expressed as

A NEGATIVE VALUE/CHARGE

Forces at Rest

$$\cos 180^\circ = -1$$



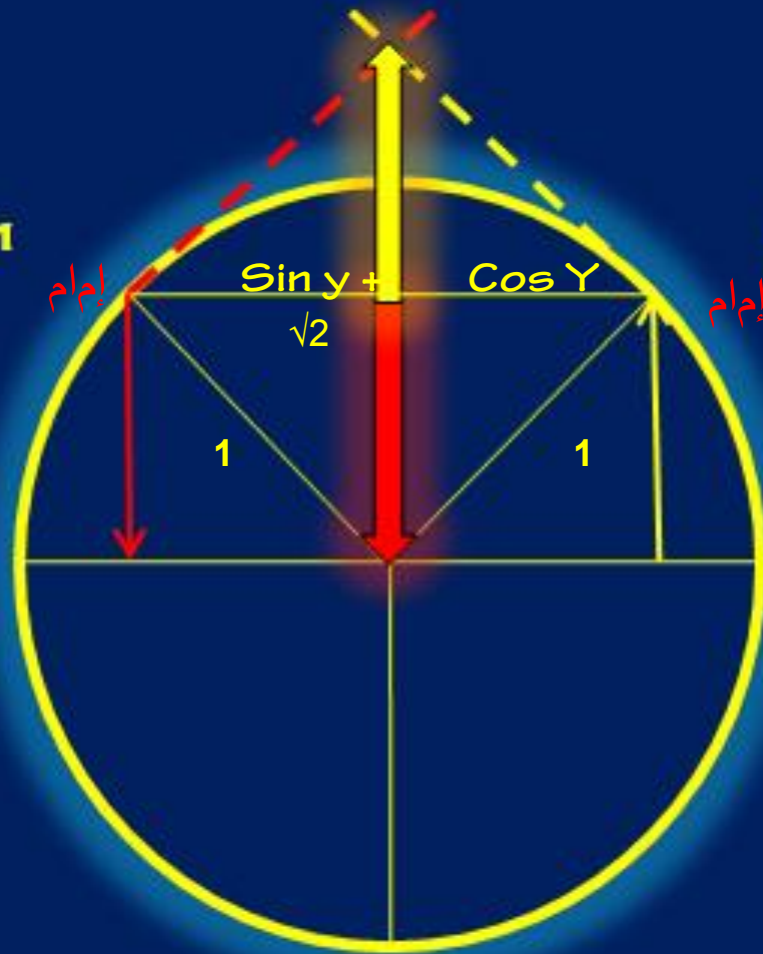
$$\sin 0^\circ = 0$$

$$\cos 135^\circ = -0.70711$$

$$\sin 45^\circ = +0.70711$$

$$\cos 180^\circ = -1$$

$$\sin 0^\circ = 0$$



Magnetism - Electricity

$\sin 90^\circ = +1$
 $\cos 90^\circ = 0$
Emission Field

$\cos 180^\circ = -1$

$\sin 0^\circ = 0$

Gravity
 $\sin 270^\circ = -1$
 $\cos 270^\circ = 0$



Unified Field Equations: $E = (\sin y + \cos y)(C/\lambda)$

$E = (\sin y + \cos y)(V/D)$

Note Frequency Wavelength (cm)

Φ	$\cos y$	$\sin y$		Nm
--------	----------	----------	--	----

pH

-(D6/J3)+7

$\cos 105^\circ =$	-0.2588		8.81	
$\Phi =$	-0.26	0.97	7.1	Nm
			17.32	1990

$\Phi =$	-0.26	0.97	7.1	Nm
----------	-------	------	-----	----

$\cos 135^\circ =$	-0.7071		11.95	
--------------------	---------	--	-------	--

$\Phi =$	-0.71	0.71	0.0	Nm
----------	-------	------	-----	----

$\cos 165^\circ =$	-0.9659		13.8	
--------------------	---------	--	------	--

$\Phi =$	-0.97	0.26	-7.1	Nm
----------	-------	------	------	----

$\cos 180^\circ =$	-1.0000		14.0	
--------------------	---------	--	------	--

	SI B0	30.870	1110	
	DO C1	32.700	1050	

$\cos 195^\circ =$	-0.9659		13.8	
--------------------	---------	--	------	--

$\Phi =$	-0.97	-0.26	-7.1	Nm
----------	-------	-------	------	----

	SI B0	30.870	1110	
	DO C1	32.700	1050	

$\cos 255^\circ =$	-0.2588		8.81	
--------------------	---------	--	------	--

	SI B0	30.870	1110	
	DO C1	32.700	1050	

$\Phi =$	-0.26	-0.97	7.1	Nm
----------	-------	-------	-----	----

$\sin 90^\circ =$ 1.00000

$\cos 90^\circ =$ 0.00000

pH= 7.00000

Note Frequency (f Wavelength (cm)

DO C0 16.35 2100

7.00000

1/7= 0.142857

Note Frequency Wavelength (cm)

Φ	$\sin y$	$\cos y$		Nm
--------	----------	----------	--	----

pH

J6/J3

$\sin 75^\circ =$	0.966		6.8	1.31 75.00
-------------------	-------	--	-----	------------

$\Phi =$	0.97	-0.26	7.1	Nm
----------	------	-------	-----	----

			17.320	1990
--	--	--	--------	------

$\sin 45^\circ =$	0.707		4.9	0.79 45.00
-------------------	-------	--	-----	------------

$\sin 15^\circ =$	0.259		1.8	0.26
-------------------	-------	--	-----	------

$\Phi =$	0.26	-0.97	-7.1	Nm
----------	------	-------	------	----

	SI B0	30.870	1110	
	DO C1	32.700	1050	

$\sin 0^\circ =$	0.00000		0.0	0.00
------------------	---------	--	-----	------

$\Phi =$	-0.26	0.97	7.1	Nm
----------	-------	------	-----	----

	SI B0	30.870	1110	
	DO C1	32.700	1050	

$\sin 345^\circ =$	-0.259		-0.26	
--------------------	--------	--	-------	--

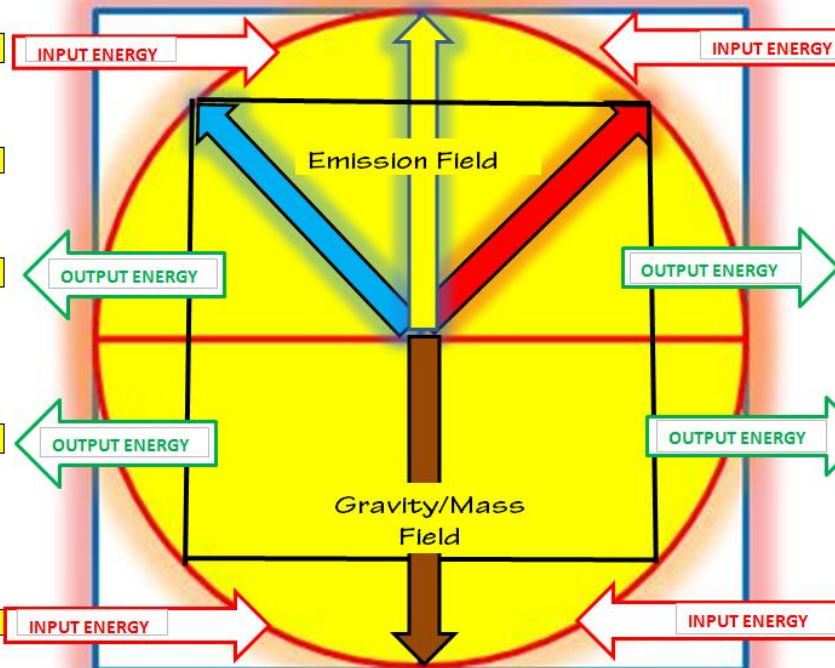
$\Phi =$	-0.26	0.97	7.1	Nm
----------	-------	------	-----	----

	SI B0	30.870	1110	
	DO C1	32.700	1050	

$\sin 335^\circ =$	-0.707		-0.79	-45.00
--------------------	--------	--	-------	--------

$\sin 285^\circ =$	-0.966		-1.31	-75.00
--------------------	--------	--	-------	--------

$\Phi =$	-0.97	0.26	-7.1	Nm
----------	-------	------	------	----



$\sin 270^\circ =$ -1.00000

$\cos 270^\circ =$ 0.00000

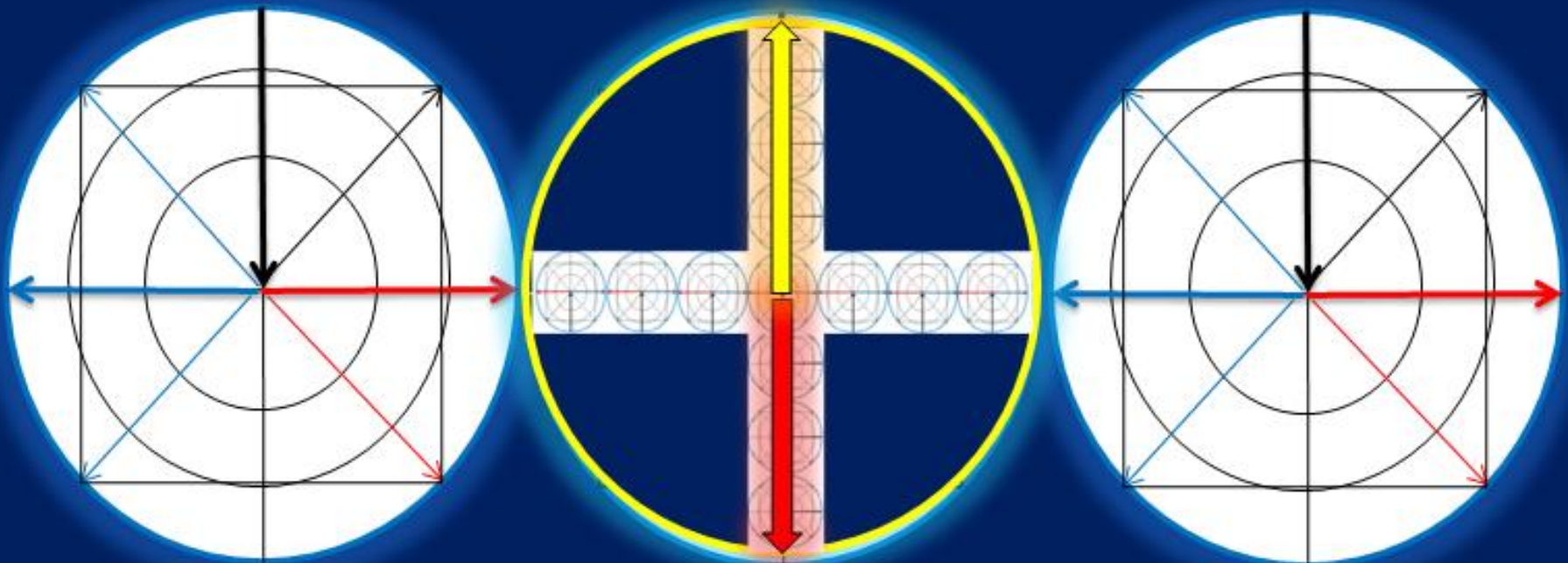
DO C0 16.35 2100

The Unified field

A wave.....

$$\sin 90^\circ = +1$$

$$\cos 90^\circ = 0$$



Gravity
 $\sin 270^\circ = -1$

EVERYTHING IS ELECTRIC AND EVERY PHENOMENON IN NATURE IS AN ALTERNATE CURRENT".....AT DIFFERENT PHASE ANGLES BETWEEN THE TWO OPPOSITE FORCES

In order to know how Energy develops following The Unified Field Law, let us do:

$$E = (\sin y + \cos y) \times v$$

$$E = (\sin y * v) + (\cos y * v)$$

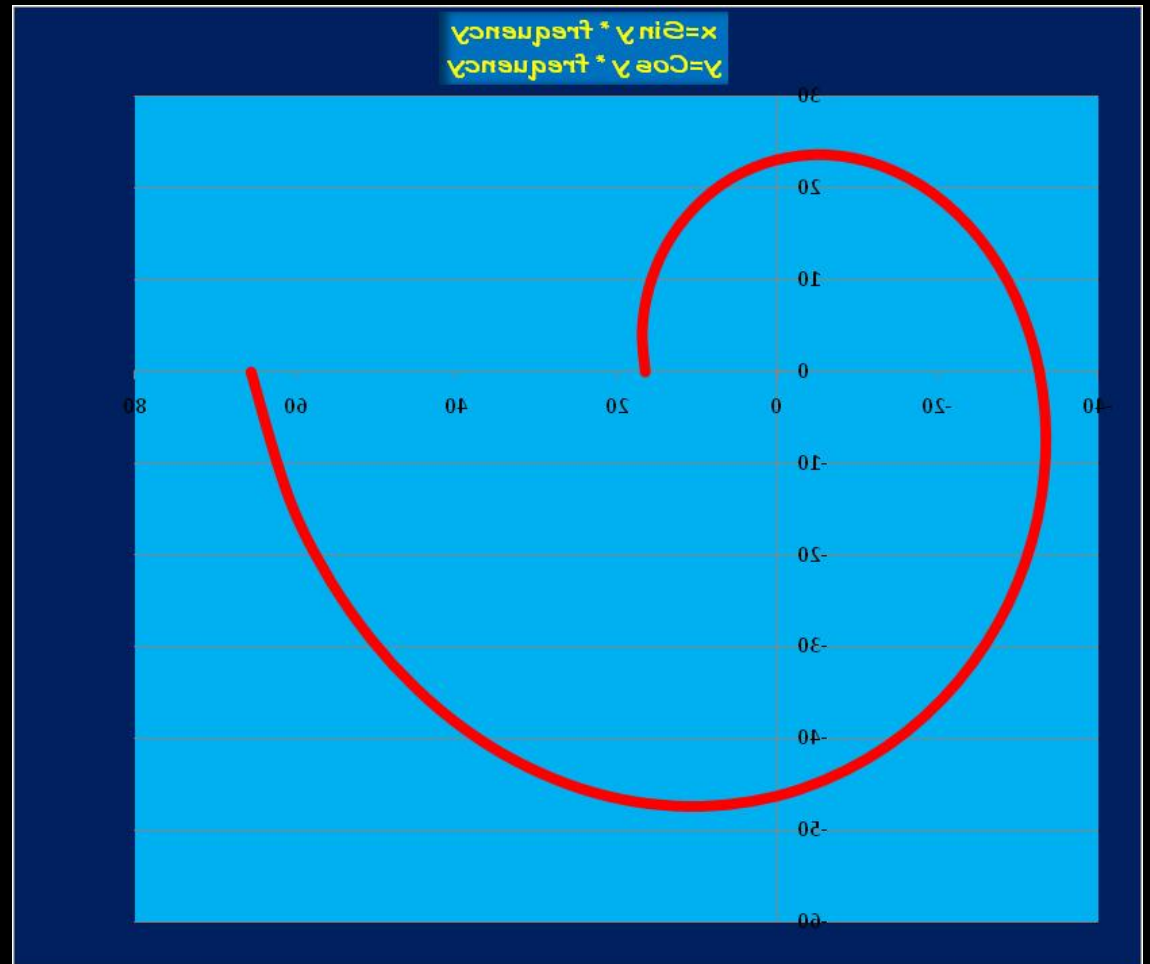
Thus, let us take some known frequencies; Sound frequencies and plot them:

Gravity/10	EM Field	Note	Frequency	X	y
Sin	Cos	C ₀			
0.0000	1.0000	C [#] ₀ /D ^b ₀	16.3500	16.3500	0.0000
0.2588	0.9659	D ₀	17.3200	16.7298	4.4827
0.5000	0.8660	D [#] ₀ /E ^b ₀	18.3500	15.8916	9.1750
0.7071	0.7071	E ₀	19.4500	13.7532	13.7532
0.8660	0.5000	F ₀	20.6000	10.3000	17.8401
0.9659	0.2588	F [#] ₀ /G ^b ₀	21.8300	5.6500	21.0862
1.0000	0.0000	G ₀	23.1200	0.0000	23.1200
0.9659	-0.2588	G [#] ₀ /A ^b ₀	24.5000	-6.3411	23.6652
0.8660	-0.5000	A ₀	25.9600	-12.9800	22.4820
0.7071	-0.7071	A [#] ₀ /B ^b ₀	27.5000	-19.4454	19.4454
0.5000	-0.8660	B ₀	29.1400	-25.2360	14.5700
0.2588	-0.9659	C ₁	30.8700	-29.8181	7.9897
0.0000	-1.0000	C [#] ₁ /D ^b ₁	32.7000	-32.7000	0.0000
-0.2588	-0.9659	D ₁	34.6500	-33.4693	-8.9681
-0.5000	-0.8660	D [#] ₁ /E ^b ₁	36.7100	-31.7918	-18.3550
-0.7071	-0.7071	E ₁	38.8900	-27.4994	-27.4994
-0.8660	-0.5000	F ₁	41.2000	-20.6000	-35.6802
-0.9659	-0.2588	F [#] ₁ /G ^b ₁	43.6500	-11.2975	-42.1627
-1.0000	0.0000	G ₁	46.2500	0.0000	-46.2500
-0.9659	0.2588	G [#] ₁ /A ^b ₁	49.0000	12.6821	-47.3304
-0.8660	0.5000	A ₁	51.9100	25.9550	-44.9554
-0.7071	0.7071	A [#] ₁ /B ^b ₁	55.0000	38.8909	-38.8909
-0.5000	0.8660	B ₁	58.2700	50.4633	-29.1350
-0.2588	0.9659	C ₂	61.7400	59.6363	-15.9795
0.0000	1.0000	C [#] ₂ /D ^b ₂	65.4100	65.4100	0.0000



Andromeda galaxy,
under IR light,
where all the Suns
look connected

WE GET A LOGARITHM SPIRAL
The perfect expression of
Power from a Birkeland
Current, or an Alternate
Current or.....



BIRKELAND CURRENTS
INTERACTING WITH EARTH

SPIRAL APPEARED
IN NORWAY DEC.
9TH. 2009

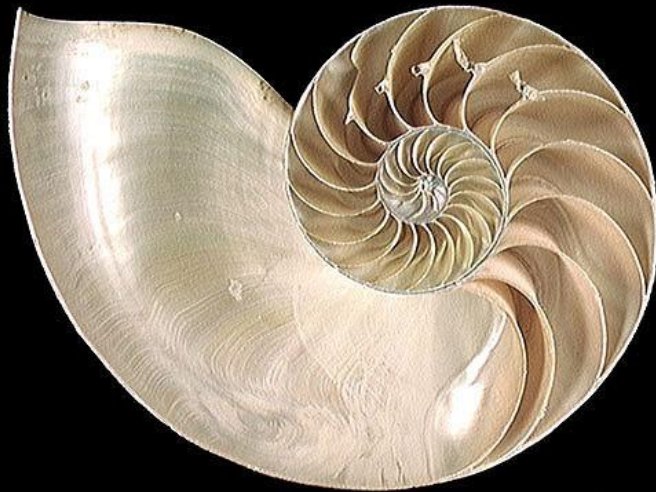
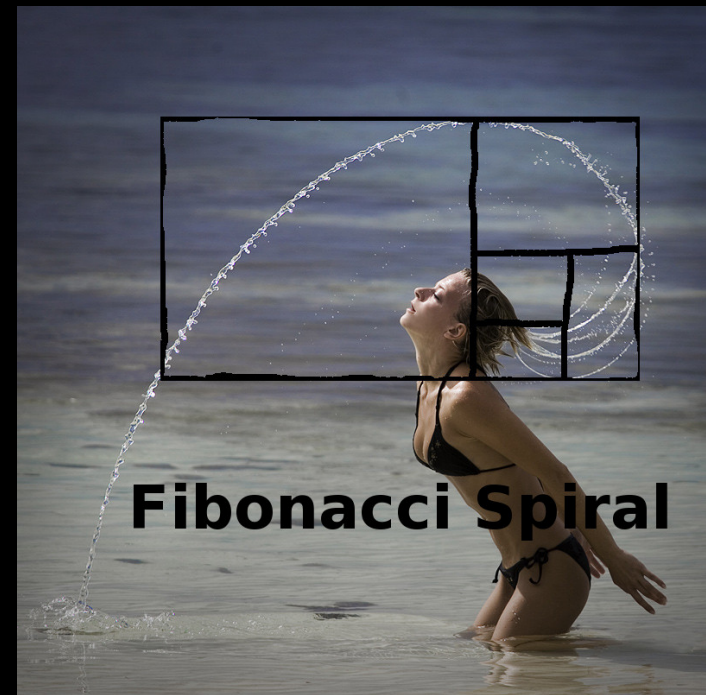
BROWN DWARF
PLANET X

BIRKELAND CURRENTS
INTERACTING WITH THE SUN

SUN

WHAT WE KNOW AS AN ALTERNATE CURRENT IS USUALLY
REPRESENTED BY THE CURVES $\text{SINE } X + \text{COSINE } X$. (THE PROJECTION
ON A PLANE OF AN SPIRAL).
HERE, OBVIOUSLY, ARE IN 3D AS AN SPIRAL.

The FIBONACCI series
The Way of Nature
The Way of The Unifed Field!





EMISSION FIELD

45°

45°

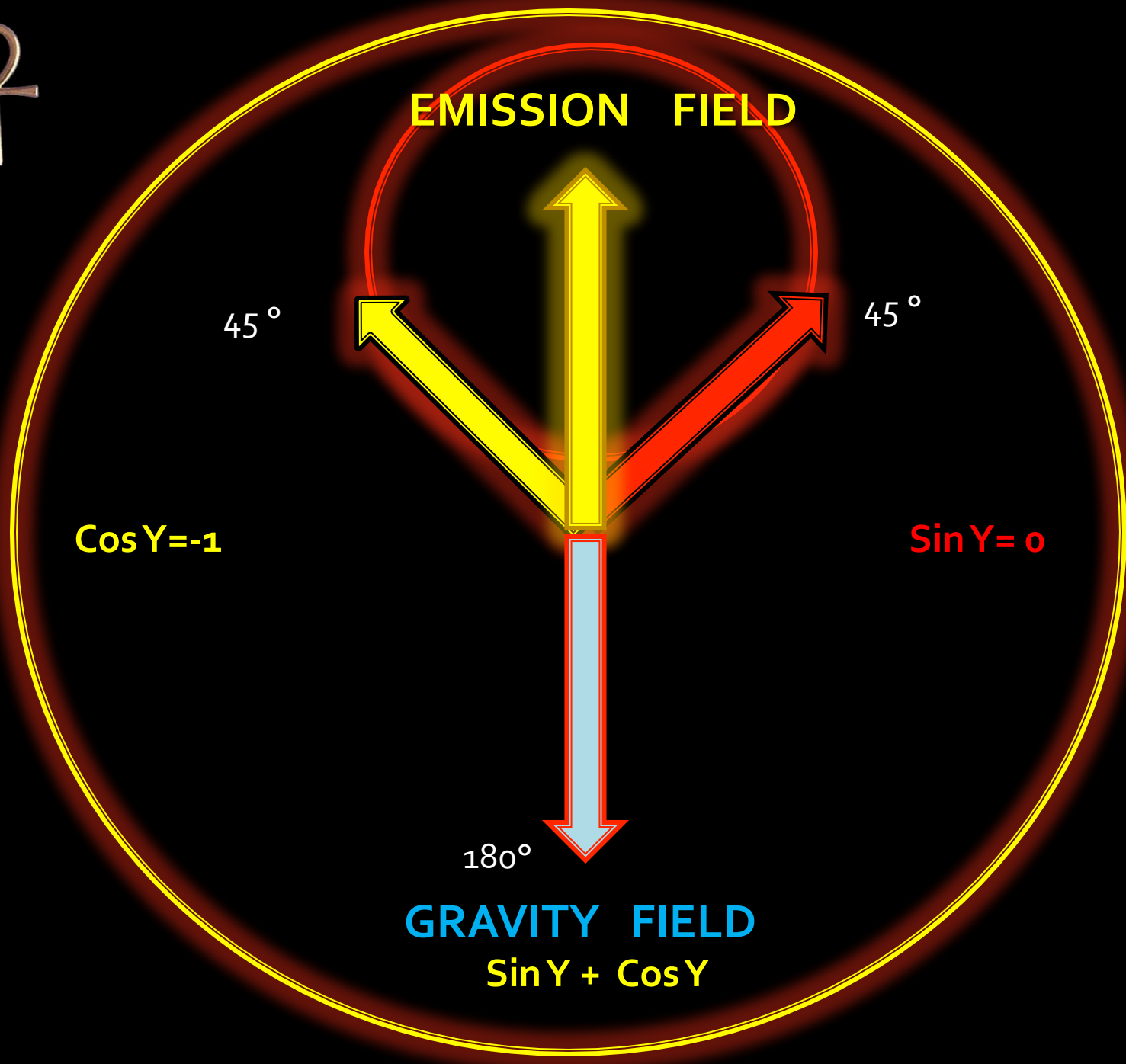
$\cos Y = -1$

$\sin Y = 0$

180°

GRAVITY FIELD

$\sin Y + \cos Y$





Adolfo Rios Pita Giurfa